

ABSTRACT OF THE DISCLOSURE

A processor system, comprising: a first program storage which stores a first program; a second program storage which stores a second program; a program counter  
5 which outputs execution addresses of said first and second programs; a first address storage which stores a first address in said first program; a second address storage which stores a second address in said second program; a comparator which compares whether or not said  
10 program counter coincides with said first address; an address changing unit which changes said program counter to said second address, when it is determined to have coincided by said comparator; and a data bus which updates said first address stored in said first address  
15 storage and said second address stored in said second address storage. A arithmetic processing method, comprising: outputting from a program counter execution addresses of a first program stored in a first program storage and a second program stored in a second program  
20 storage; determining whether or not said program counter coincides with a first address in said first program stored in said first address storage; and changing said program counter into a second address in said second program stored in said second address storage, when it  
25 is determined to have coincided.